

# **Safety Data Sheet**

Issue Date 05-Aug-2014 Revision Date: 05-Aug-2014 Version 1

## 1. IDENTIFICATION

**Product Identifier** 

Product Name Dynamic Powerhouse SHOOTER Water Stain Breaker

Other means of identification

**SDS** # DRC-004

Recommended use of the chemical and restrictions on use

Recommended Use Hard water stain remover.

Details of the supplier of the safety data sheet

**Supplier Address** 

Dynamic Research Company, Inc 4800 SW Meadows STE 300 Lake Oswego, OR 97035

**Emergency Telephone Number** 

Company Phone Number (General Information) 1-503-699-1335 Emergency Telephone (24 hr) 1-800-255-3924 (US/Canada)

1-800-255-3924 (US/Canada) 1-813-248-0585 (International)

#### 2. HAZARDS IDENTIFICATION

#### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

#### Signal Word Danger

#### **Hazard Statements**

Causes skin irritation Causes serious eye damage



Appearance Blue-green liquid Physical State Liquid Odor Mint-like

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

#### **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water, coloring, fragrance & similar non-hazardous	Proprietary	Balance
ingredients		
Surfactants	Proprietary	1-5
Sulfamic acid	5329-14-6	1-8
Glycolic Acid	79-14-1	1-8
Citric Acid	79-92-9	1-8
Ammonium bifluoride	1341-49-7	1-7
dipropylene glycol monomethyl ether (DPM)	34590-94-8	1-3

#### 4. FIRST-AID MEASURES

#### **First Aid Measures**

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

**Skin Contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If skin irritation occurs: Get medical advice/ attention.

Inhalation Remove to fresh air. Seek medical advice if recovery is not rapid.

Ingestion Rinse mouth. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4

cups of milk or water. Never give anything by mouth to an unconscious person. Seek

medical attention.

## Most important symptoms and effects

**Symptoms** Causes serious eye damage. Direct contact may cause painful stinging or burning of eyes

> and lids, watering of eye, and irritation. Causes skin irritation. Skin may exhibit redness. Mist or vapor inhalation can cause irritation to the nose, throat, and upper respiratory tract. May be harmful if swallowed. Ingestion may cause irritation of the gastrointestinal tract,

cramps, vomiting or diarrhea.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

None known. Heat of fire may melt containers.

Hazardous Combustion Products Ammoniacal vapors, Hydrogen Fluoride, Oxides of Nitrogen.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protection recommended in Section 8.

**Environmental Precautions** See Section 12 for additional Ecological Information. See Section 13, Disposal

Considerations, for additional information.

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Scoop up and collect with an inert absorbent and place into closable containers for

disposal. Following product recovery, flush area with water.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Wash face, hands,

and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Avoid contact with skin and eyes. For Industrial or professional use only.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store

near heat or flame (containers may melt). Keep from freezing. Keep out of the reach of

children.

**Packaging Materials** Empty containers retain product residue and can be hazardous.

**Incompatible Materials** Strong alkalis. Bleach. Cyanides. sulfides. Chlorine compounds. Do not mix with other

chemicals or cleaners.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium bifluoride	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F
1341-49-7	_	TWA: 2.5 mg/m <sup>3</sup> dust	_
		(vacated) TWA: 2.5 mg/m <sup>3</sup>	
dipropylene glycol monomethyl ether (DPM)	STEL: 150 ppm	TWA: 100 ppm	IDLH: 600 ppm
34590-94-8	TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>	TWA: 100 ppm
	S*	(vacated) TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>
		(vacated) TWA: 600 mg/m <sup>3</sup>	STEL: 150 ppm
		(vacated) STEL: 150 ppm	STEL: 900 mg/m <sup>3</sup>
		(vacated) STEL: 900 mg/m <sup>3</sup>	
		(vacated) S*	
		S*	

#### **Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Use chemical safety goggles if contact is likely.

**Skin and Body Protection** PVC, neoprene, rubber, or other impervious gloves are recommended to prevent skin

contact. Wear suitable protective clothing and footwear appropriate for the risk of exposure.

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Respiratory Protection Ensure adequate ventilation, especially in confined areas. If necessary, wear a

MSHA/NIOSH-approved respirator.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash contaminated

clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State Liquid

AppearanceBlue-green liquidOdorMint-likeColorBlue-greenOdor ThresholdNot determined

Property Values Remarks • Method

pH 4.4-5.0 (undiluted)

Melting Point/Freezing Point Not determined

**Boiling Point/Boiling Range** 100 °C / 212 °F ASTM D92

Flash Point None
Evaporation Rate Not available

Flammability (Solid, Gas) Liquid-not applicable

Upper Flammability LimitsNot availableLower Flammability LimitNot availableVapor PressureNot availableVapor DensityNot available

Relative Density (Specific Gravity) 1.041 (1=Water)

Water Solubility Completely soluble

Freeze Thaw Stable Yes
Phosphate Content None

Shelf Life Three years in unopened containers

**Degradabilty** Readily Biodegradable

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

## **Chemical Stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Keep out of reach of children.

## **Incompatible Materials**

Strong alkalis. Bleach. Cyanides. sulfides. Chlorine compounds. Do not mix with other chemicals or cleaners.

## **Hazardous Decomposition Products**

Ammoniacal vapors, Hydrogen Fluoride, Oxides of Nitrogen.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye damage.

**Skin Contact** Causes skin irritation.

**Inhalation** Avoid breathing vapors or mists. May cause irritation of respiratory tract.

**Ingestion** May be harmful if swallowed. Do not taste or swallow. May cause gastrointestinal irritation,

nausea, diarrhea, and vomiting.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water, coloring, fragrance & similar non-hazardous ingredients	> 90 mL/kg(Rat)	-	-
Glycolic Acid 79-14-1	= 1950 mg/kg(Rat)	-	= 7.7 mg/L (Rat) 4 h
Sulfamic acid 5329-14-6	= 1450 mg/kg ( Rat )	-	-
Ammonium bifluoride 1341-49-7	= 130 mg/kg (Rat)	-	-
dipropylene glycol monomethyl ether (DPM) 34590-94-8	= 5230 mg/kg(Rat)	= 9500 mg/kg(Rabbit)	-

## Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

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Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium bifluoride		Group 3		
1341-49-7				

Legend

IARC (International Agency for Research on Cancer) Group 3 IARC components are "not classifiable as human carcinogens"

#### **Numerical measures of toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycolic Acid 79-14-1		5000: 96 h Brachydanio rerio mg/L LC50 static		
Sulfamic acid 5329-14-6		14.2: 96 h Pimephales promelas mg/L LC50 static		
dipropylene glycol monomethyl ether (DPM) 34590-94-8		10000: 96 h Pimephales promelas mg/L LC50 static		1919: 48 h Daphnia magna mg/L LC50

## Persistence/Degradability

Readily biodegradable

#### **Bioaccumulation**

Not determined

## **Mobility**

Chemical Name	Partition Coefficient
Glycolic Acid 79-14-1	-1.11
dipropylene glycol monomethyl ether (DPM) 34590-94-8	-0.064

#### **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

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#### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

## 15. REGULATORY INFORMATION

## **International Inventories**

TSCA All ingredients are listed or exempt from listing on Chemical Substance Inventory

**DSL** Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

## US Federal Regulations

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium bifluoride	100 lb		RQ 100 lb final RQ
1341-49-7			RQ 45.4 kg final RQ

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ammonium bifluoride - 1341-49-7	1341-49-7	1-7	1.0
dipropylene glycol monomethyl ether (DPM) - 34590-94-8	34590-94-8	1-3	1.0

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium bifluoride	100 lb			X
1341-49-7 ( 1-7 )				

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sulfamic acid 5329-14-6	X		
Ammonium bifluoride 1341-49-7	X	Х	Х
dipropylene glycol monomethyl ether (DPM) 34590-94-8	Х	X	X

## 16. OTHER INFORMATION

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	<b>Personal Protection</b>
	2	0	0	Not determined

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### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**